

# QUICK SHEET

## Apple iPod Touch

### LOCATION of EQUIPMENT:

Hardware: Cabinet 1 (lightning cords are also in cabinet if needed)

Accessories: Flir One (thermal imaging)

Kestrel Data Loggers

Software: DeMobo Slides

Flir One

Kestrel (for Kestrel data loggers)

Sketchbook

ThermalAnalysis (used with Flir one)

### INSTRUCTIONS FOR USE:

1. Hold the on/off button on top of the device for 3 seconds or until the apple logo appear. If the device does not turn on, the battery may be dead. Plug the iPod into power and allow it to charge.
2. Press the home button on the front of the device once to “wake” it. Tap it a second time to unlock it.
3. You can scroll through the applications by sliding left and right.(see list below)
4. It may be necessary to connect the device to WiFi (Settings>Wi-Fi). This is helpful when it comes time to extract any data from the device.

### HELPFUL TIPS:

- You can email your data from the device to your own account.
- You can also “airdrop” files between Apple devices. (see attendant)

### OVERVIEW:

The iPod touch has a 5 megapixel camera with 1080p video recording capabilities

### INSTRUCTIONS FOR APPLICATIONS

**DEMOBO SLIDES:** An application that allows a person to control a slide show presentation using the iPod like a remote control.

1. Make sure the iPod and computer are on the same WiFi
2. Visit: <https://www.demobo.com/slides>
3. Follow the instructions on the website
4. The code for the iPod can be found by pressing the gear icon in the top left of the screen

**FLIR ONE:** Used as a quick thermal imaging tool. The application is used with a Flir device that plugs into the bottom of the iPod and is available from the lab.

1. Plug the Flir in into the iPod touch and press the button on right side
2. Open the Flir One app
3. Point the camera toward whatever it is you are trying to capture and press the blue button
4. You can send all the pictures to an email address or airdrop them to another device
5. Confirm you have a copy of the photos, then delete your images off of the iPod
6. Turn off the Flir and place it back into its holder

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**KESTREL:** Used for connecting to Kestrel data loggers through bluetooth.

1. Make sure bluetooth is turned on
2. Open the app
3. You should see a list of devices that are within range
4. The number listed in the menu is the number that can be found on the back of the device (please do not change the name of the device)
5. Once you select the device, the light on the kestrel will begin to flash
6. Next the dashboard will open up and show you real time measurements. All data on the kestrel will automatically start downloading to the IPod, indicated by the spinning wheel next to the devices name.

**SKETCHBOOK:** A drawing application from Autodesk that is used for quickly generating sketches in the field.

#### HELPFUL TIPS:

- If you open the application and you see there is already a drawing, press the menu button in the top left of the screen and then select "new sketch."
- Use a stylus for better control
- Explore the different menus to see what can be created!

**THERMAL ANALYSIS:** Allows you to mark up to four locations or regions on a thermal image. In a selected region, you can determine minimum, maximum, or average temperature. Graph temperature data live during an experiment, then export to our Graphical Analysis app for further analysis.

1. Plug the Flir in into the IPod touch and press the button on right side
2. Open the ThermalAnalysis app
3. The IPod will ask if you "FLIR ONE would like to communicate with the FLIR systems FLIR ONE camera." Make sure you select IGNORE (The app will crash trying to open up the default software for the FLIR ONE). if you accidentally select "allow," just restart this process.

#### SUGGESTED APPLICATIONS:

- Comparing different window and glass types and technologies and their radiation transmittance through a measuring of exterior and interior UV-B levels
- Measuring radiation levels of specific areas to determine if occupants are exposed to unhealthy levels of UV-B radiation
- Experiments involving sunlight and its penetration into buildings

#### RELEVANT TOPICS:

Post-Occupancy Studies, Daylighting Studies, Performance of Glass in Eliminating UV-B Radiation (Transmittance)